





February 14, 2012

Dear

SUBJECT: Analysis Results for Water Supply at Marquette County, Michigan Humboldt Township,

The United States Environmental Protection Agency (EPA) collected a sample from your private water supply on November 1, 2011. Attached is a tabulation of the sample analysis results. The EPA sampled your water supply to assess if past activities at the nearby Humboldt Mine and Mill site had affected groundwater and individual water supplies in the area.

The concentrations of inorganic substances and metals detected in the water supply samples were below established federal and state drinking water standards and health concern levels, and were similar to groundwater quality generally found in Central Marquette County. While it is entirely normal within the region, it is noteworthy that iron and manganese were detected at concentrations higher than the secondary drinking water standards. The secondary standard for iron is 300 micrograms per liter (ug/l) and the secondary standard for manganese is 50 ug/l. The secondary standards are not health-risk standards. They are aesthetic water quality standards.

The iron concentration in your water supply samples ranged from 25800 to 26000 ug/l. The manganese concentration ranged from 948 to 953 ug/l. Water containing iron and manganese at concentrations above the secondary standard may cause staining of fixtures and laundry, and may have objectionable turbidity, color, and odor.

Even though there is no indication your water supply has been impacted, the EPA and the Michigan Department of Environmental Quality (DEQ) believe a second sample set is needed. The EPA will contact you regarding a second access agreement and sample collection date. Analysis of the follow-up samples will be performed for some inorganic substances not previously researched and for some organic chemicals at a lower laboratory detection limit.

The EPA and the DEQ appreciate your cooperation in these investigations. If you have questions about the sampling efforts, please contact Nuria Muñiz at 312-886-4439. If you have questions about the analysis results, please contact Chuck Thomas, DEQ by phone at 906-346-8534 or by email at thomasc3@michigan.gov.

Sincerely,

Nuria Muñiz

U.S. Environmental Protection Agency

Superfund Division

Region 5, Chicago IL.

Charles H. Thomas, P.G.

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Michigan Dept. of Environmental Quality

Resource Management Division

Upper Peninsula District Office

Enclosure

cc:

Ms. Dana DeBruyn, DEQ Mr. Steve Harrington, DEQ Mr. Patrick L. Jacuzzo, Marquette County Health Dept.

Mr. Don Deblasio, EPA

Mr. Mark Johnson, ATSDR

Matrix Groundwater Cyanide (ug/L)	Analyte	MCL (ug/L)	HMDW-005B	HMDW-013 (duplicate of 5B)
Cyanide (ug/L) 200 2.8 J- 1.8 J- Metals (ug/L) Aluminum 200 U 200 U Antimony 6 60 U 60 U Arsenic 10 10 U 10 U Barium 2000 82.4 J 81.5 J Beryllium 4 5 U 5 U Cadinium 5 5 U 5 U Calcium 20200 20200 20200 Chromlium 100 10 U 10 U Cobalt 13.5 J 13.3 J Copper 1300 177 193 Iron Lead 15 10 U 10 U Magnesium 8280 8330 Manganese 948 953 Mercury 2 0.15 J 0.13 J Nickel 40 U 40 U 40 U Polassium 500 U 500 U 500 U Silver 10 U 10 U 10 U Silver 10 U 10 U		moz (ag/z)		
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	2,6-Dinitrotoluene			5 U
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	2-Chlorophenol		5 U	5 U

SVOCs (ug/L) Continued	1		
2-Methylnaphthalene		5 U	5 U
2-Methylphenol		5 U	5 U
2-Nitroaniline		10 U	10 U
2-Nitrophenol		5 U	5 U
3,3'-Dichlorobenzidine		5 U	5 U
3-Nitroaniline		10 U	10 U
4,6-Dinitro-2-methylphenol		10 U	10 U
4-Bromophenyl-phenylether		5 U	5 U
4-Chloro-3-methylphenol		5 U	5 U
4-Chloroaniline		5 U	5 U
4-Chlorophenyl-phenylether		5 U	5 U
4-Methylphenol		5 U	5 U
4-Nitroaniline		10 U	10 U
4-Nitrophenol		10 U	10 U
Acenaphthene		5 U	5 U
Acenaphthylene		5 U	5 U
Acetophenone		5 U	5 U
Anthracene		5 U	5 U
Attriacerie Atrazine	3	5 U	5 U
Benzaldehyde	<u> </u>	5 U	5 U
		5 U	5 U
Benzo(a)anthracene	0.2	5 U	5 U
Benzo(a)pyrene	0.2	5 U	5 U
Benzo(b)fluoranthene		5 U	5 U
Benzo(g,h,i)perylene Benzo(k)fluoranthene		5 U	5 U
Bis(2-chloroethoxy)methane		5 U	5 U
Bis(2-chloroethyl)ether		5 U	5 U
Bis(2-ethylhexyl)phthalate	6	25 U	25 U
Butylbenzylphthalate	0	5 U	5 U
Caprolactam		5 U	5 U
Carbazole		5 U	5 U
		5 U	5 U
Chrysene		5 U	5 U
Dibenzo(a,h)anthracene Dibenzofuran		5 U	5 U
Diethylphthalate		5 U	5 U
Dimethylphthalate		5 U	5 U
Di-n-butylphthalate		5 U	5 U
Di-n-octylphthalate		5 U	5 U
Fluoranthene		5 U	5 U
Fluorene		5 U	5 U
Hexachlorobenzene	1	5 U	5 U
Hexachlorobutadiene	I	5 U	5 U
Hexachlorocyclopentadiene	50	5 U	5 U
Hexachloroethane		5 U	5 U
Indeno(1,2,3-cd)pyrene		5 U	5 U
Isophorone		5 U	5 U
Naphthalene		5 U	5 U
Nitrobenzene		5 U	5 U
N-Nitroso-di-n-propylamine		5 U	5 U
N-Nitrosodiphenylamine		5 U	5 U
Pentachlorophenol	1	10 R	10 R
Phenanthrene	P .	5 U	5 U
Phenol		5 U	5 U
Pyrene		5 U	5 U

VOCs (ug/L)

1,1,1-Trichloroethane 200 5 U 5 U 1,1,2,2-Tetrachloroethane 5 U 5 U 1,1,2-Trichloro-1,2,2-trifluoroethane 5 U 5 U 1,1,2-Trichloroethane 5 U 5 U 1,1-Dichloroethane 5 U 5 U	
1,1,2-Trichloro-1,2,2-trifluoroethane 5 U 5 U 1,1,2-Trichloroethane 5 U 5 U 1,1-Dichloroethane 5 U 5 U	
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1,1-Dichloroethene 7 5 U 5 U	
1,2,3-Trichlorobenzene 5 U 5 U	
1,2,4-Trichlorobenzene 70 5 U 5 U	
1,2-Dibromo-3-chloropropane 5 U 5 U	
1,2-Dibromoethane 5 U 5 U	
1,2-Dichlorobenzene 600 5 U 5 U	
1,2-Dichloroethane 5 5 U 5 U	
1,2-Dichloropropane 5 5 U 5 U	
1,3-Dichlorobenzene 5 U 5 U	
1,4-Dichlorobenzene 75 5 U 5 U	
1,4-Dioxane 100 R 100 R	
2-Butanone 10 U 10 U	
2-Hexanone 10 U 10 U	
4-Methyl-2-Pentanone 10 U 10 U	
Acetone 20 U 20 U	
Benzene 5 5 U 5 U	
Bromochloromethane 5 U 5 U	
Bromodichloromethane 5 U 5 U	
Bromoform 5 U 5 U	
Bromomethane 5 U 5 U	
Carbon disulfide 5 U 5 U	
Carbon tetrachloride 5 5 U 5 U	
Chlorobenzene 100 5 U 5 U	
Chloroethane 5 U 5 U	
Chloroform 5 U 5 U	
Chloromethane 5 U 5 U	
cis-1,2-Dichloroethene 70 5 U 5 U	
cis-1,3-Dichloropropene 5 U 5 U	
Cyclohexane 5 U 5 U	
Dibromochloromethane 5 U 5 U	
Dichlorodifluoromethane 5 U 5 U	
Ethylbenzene 700 5 U 5 U	
Isopropylbenzene 5 U 5 U	
m,p-Xylene 5 U 5 U	
Methylene chloride 10 U 10 U	
o-Xylene 10000 5 U 5 U	
Styrene 100 5 U 5 U	
Tetrachloroethene 5 5 U 5 U	
Toluene 1000 5 U 5 U	
trans-1,2-Dichloroethene 100 5 U 5 U	
trans-1,3-Dichloropropene 5 U 5 U	
Trichloroethene 5 5 U 5 U	
Trichlorofluoromethane 5 U 5 U	
Vinyl chloride 2 5 U 5 U	

Symbol Key

MCL means maximum contaminant level ug/l means micrograms per liter and all analysis results as reported as ug/l SVOC means semi-volatile organic chemical VOC means volatile organic chemical

U after a number means not detected, but the result reported is the lab detection limit

R after a number means the data may not be valid

J after a number means the substance was positively identified and the numerical value is an approximate concentration of the substance in the sample